Pennsylvania Museum and School of Industrial Art Philadelphia

Commencement Exercises

HORTICULTURAL HALL

Thursday Evening, June 6, 1912

at 8 o'clock

PROGRAMME

Music

Introductory Remarks . . . By the Principal

Address. . . . By Hon. Wm. C. Sproul

Subject—"Practical Art and the Commonwealth"

Awarding of Diplomas and Prizes

Address to the Graduates . By Pres. Theo. C. Search

Music

Music by W. R. Stobbe's Orchestra

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Report of the Principal

Presented at the Close of the Thirty-Fifth School Year
June 6, 1912

REGISTRATION

The registration for the year is 1103, of which number 675 are men and 428 are women; 23 States and 5 foreign countries are represented, but 82 per cent. of the entire enrollment is from Pennsylvania.

Numerically this registration is a little less than that of last year, but the falling off is more than accounted for by the discontinuance or discouragement of certain elementary work in special and part-time classes which the school had been willing to conduct temporarily for the benefit of teachers and pupils of the primary grades in the public schools, but which it was not deemed wise to carry on any longer.

In the classes in which the more serious and legitimate work of the school is done, there has been a substantial increase in the enrollment. In the regular classes of the Art Department, for example, the increased attendance is 64, more than two-thirds of which is in the day classes.

IMPROVEMENTS TO THE BUILDING

This increase of pupils in regular attendance is indeed so pronounced as to seriously tax the facilities of

the building, not only in connection with the actual requirements of the class rooms, but in the provision of room for lockers for the proper care of the ever increasing collections of casts and other equipment, and for many other administrative necessities. These facilities were to a considerable extent increased during the past year, but the needs always manage to keep a little ahead of the relief afforded. The new boiler house which was so sadly needed for many years, was built last summer and has relieved a very difficult situation as far as the heat and power plant is concerned, although the fact that the cost of the improvement was deducted from our State appropriation meant a temporary crippling of the resources of the School that was very serious. Another improvement of considerable importance was the construction of a large window which has very greatly increased the usefulness of one of the larger studios, the cost of the improvement being defrayed by the Associate Committee of Women.

EQUIPMENT

Important additions to the collections of casts and other objects for study have been made during the year, among them being a fine collection of Italian pottery and another of reproductions in terra cotta by the Signa Company of Florence, of mediæval and renaissance objects of industrial art, in wood, marble, bronze, etc., all of which were purchased in Italy by Mr. Stratton during the summer of 1911, with funds contributed for this purpose by the Associate Committee of Women, and by Mrs. John Harrison and Mr. John T. Morris. A detailed account of accessions obtained in this way is

given in the list of donations which is appended to this report.

TEACHING STAFF

The complete recovery of Mr. Copeland from the illness which was mentioned in the last report, has re-established the work of the course in Interior Decoration on the same satisfactory basis as heretofore. Mrs. Andrade resigned as instructor of the class in Illustration and this position has been accepted by Mr. Walter H. Everett, a former pupil of the school who has achieved marked success as an illustrator and who has, in a spirit of loyalty which is much appreciated, assumed the direction of this course. Mr. Faber resigned, at the beginning of the year, his position as instructor of drawing from the cast in the School of Applied Art, but has continued his connection with the Textile School in a similar capacity. Miss Mabel B. Hall has been engaged as an assistant to Mr. Muhr in the conduct of the classes in drawing from the cast. Mr. Barker asked to be relieved of a large part of his work which, in re-organizing the classes, was divided between Mr. Spear and Mr. Ege.

THE ALUMNI

Much efficient work has been done by the Alumni Association of both departments of the School.

The Art School Alumni has secured a charter during the past year which enabled it to accept a gift of $1,000 from Mr. W. K. Ramborger, in memory of his mother, Mary Lucretia Ramborger, for the permanent endowment of a costume sketch class which meets regularly on Saturday afternoons throughout the year, and to

which Mrs. James Mifflin has presented a large collection of costumes. A competition conducted in the interest of the Historical Pageant to be presented in Fairmount Park next October, the subject of which was the episode of Franklin at the Court of Louis XVI was referred to this class.

The business bureau conducted by this association has continued its activities and usefulness on an ever increasing scale, 101 applications for teachers, designers or craftsmen having been received during the year, about half of which the association was able to supply. Several collections of the work of the School are in constant use as itinerant exhibitions in different parts of the country, under the direction of the graduates who are established in the localities to which the exhibits are sent. The reports which have been received regarding the influence exerted by these exhibitions and the interest with which they have everywhere been received, are extremely encouraging.

Six memorial scholarships available for former pupils and maintained exclusively for the encouragement of advanced study are awarded annually by this association. The two foreign scholarships established by Mrs. James Mifflin and Mrs. Joseph F. Sinnott will be awarded for the first time next year.

The Textile School Alumni have also been very active. Their publications which always contain valuable contributions drawn from the practical experience of graduates, constitute an important addition to the literature of technical education, while their annual reunions, which are always very well attended, are the means of bringing together men from all parts of the country and as the

speakers at the annual banquet are always men of national reputation and influence these occasions have proved of immense value in extending a knowledge of the School and emphasizing the importance of its work.

A Students' Loan Fund, similar to the one which has for several years done excellent service in the Art Department, has been formed by contributions from the membership with the object of affording assistance to deserving students in the Textile School who may require it. In this as in everything else that has furnished an occasion for service to the School in either of the departments, the graduates, who represent more definitely and more truly than anything else the aims of the institution and the sum of all that it accomplishes, have shown a spirit of loyalty to it and of devotion to the ideals which it represents which furnish the best possible guarantee of the soundness of the principles on which it was founded, and the permanence of the influence which it is bound to exert.

Respectfully submitted,

LESLIE W. MILLER,
Principal.

Diplomas, Prizes and Certificates

AWARDED TO-DAY

DIPLOMAS

SCHOOL OF APPLIED ART

Regular Course (Drawing, Painting and Modeling)

Helen Anna Bussinger
Lillian May Daiss
Mary Veronica DeVine
Mary Wilber Gregory
Charlotte Eleanor Hart
Etta Matilda Pettit
Anna Teresa Pike
Bertha Louise Schmidt
Frances Stuckert

Normal Art Instruction

Linnaea Fides Bittle
Margaret Bostock
Jane Blachly Driver
Edith Dorothy Finley
Alice Avis Fitzgerald
Alice Mary Lemon
Olive Irene Merriam
Edith Harper Smith
Samuel Gordon Smyth
Mabel Rebecca Stauffer
Nanna Worrall Stewart

Interior Decoration

William Alexander Bond
Edna Selena Cave

TEXTILE SCHOOL

Regular Textile Course

Henry Anner, Jr.
Hibbert Henry Dancy
Frank Lester Giese
Alan Penniman Paca Hoblitzell
Alvin Kingsbacher
Carl Nagel
Frank Berger Shuler
John Harry Spencer, Jr.
John Alfred Thackrah, Jr.
Carl Thurston Tourtellot

Chemistry, Dyeing and Printing Course

Arnott Richardson Broom
John Riley Watson

PRIZES

SCHOOL OF APPLIED ART

Associate Committee of Women's Prizes:

First: $20.00. (Elizabeth Duane Gillespie Prize.) For the best work in the course in Industrial Drawing.

Awarded to Leon William Corson
Honorable mention to William Gordon Thayer

Second: $10.00. For original design for Printed Silk.

Awarded to Mary Lillian Schofield
Honorable mention to Clemens Poiesz
" " " Margaret Hough

Third: $10.00. For original design for Rug.

Awarded to Helen Benson Murphy
Honorable mention to Annabell Lee Thoma

Prizes of the Graduating Class: $10.00. Awarded for the best finished piece of work in metal.

$5.00 awarded to Olive Irene Merriam
$5.00 awarded to Edith Dorothy Finley

Mrs. Jones Wister Prize: $20.00. For Stained Glass.

Awarded to William C. Grauer
Honorable mention to Carl V. Welker

Emma S. Crozer Prize: $20.00. Offered for the best work in Drawing.

$10.00 awarded to Elizabeth Freedly
$10.00 awarded to Frederick Anderson
Honorable mention to Mary Rose Donovan
" " " Helen Marie Brown

Emma S. Crozer Prize: $20.00. Offered for the best group in Modeling.

Awarded to Ruth MacCollin
Honorable mention to Alice Scott Raymond.

Mrs. Francis Forbes Milne Prize: $10.00. Offered for best studies of Animals from Life.

Awarded to Isabel W. Caley
Honorable mention to Ernst F. Detterer
" " " Grace G. Kelley

John J. Boyle Prize: $10.00. Offered by Mr. John J. Boyle, of the Advisory Committee, for general excellence in Modeling.

Awarded to Edith Mary Clement.

Caroline Axford Magee Prize: $20.00. For original design for Lace.

Awarded to Louise Pharo
Honorable mention to A. Beatrice Twaddell

Frederick Graff Prize: $20.00. For Architectural Design.

Awarded to Frank Fish
Honorable mention to J. Walter Deming

Henry Perry Leland Prize: $25.00. Offered by Mrs. John Harrison for the best work in Illustration.

$15.00 awarded to Henrietta Collins
$10.00 awarded to Robert McCaig
First honorable mention to William Shettsline
Second " " " Catherine Hawley

Girls' Industrial Art League Prize: $10.00. For the best finished article designed and made by a Student member of the League.

Awarded to M. Frances Hedges for Carved Chair
Honorable mention to Harriet Marcy for Cement Garden Vase

F. Weber Prize: Drawing Table. For the best work in Instrumental Drawing.

Awarded to Leon William Corson
Honorable mention to William Gordon Thayer

John Harrison Prize: $15.00. Offered by Mrs. John Harrison for work in Furniture.

Awarded to Harriet Blackburn
Honorable mention to William H. Thompson

Emily Leland Harrison Prize: $10.00. Offered by Mrs. John Harrison for work in Wrought Iron.

Awarded to Parke Emerson Edwards
Honorable mention to Rene Grove

Mrs. Joseph F. Sinnott Prize: $10.00. Offered by Mrs. Joseph F. Sinnott for the best executed piece of Garden Pottery in cement.

Awarded to John Ray Sinnock
Honorable mention to Mary Edith Clement
" " " Harriet Marcy

G. Gerald Evans Prize: $10.00. Offered by Mr. G. Gerald Evans of the Advisory Committee, for a piece of Cabinet Work, meritorious in design and execution.

Awarded to Mary Edith Clement
Honorable mention to John Ray Sinnock
" " " Ruth MacCollin

Mrs. Thomas Roberts Prize: $20.00. For general excellence in Diploma Course.

Awarded to E. Dorothy Finley
Honorable mention to Mabel R. Stauffer

Miss Lea Prize: $20.00. For the best work in Water-color.

Awarded to Jane P. Baker
Honorable mention to Charles R. Chickering

Mrs. J. L. Ketterlinus Prizes: $10.00 for the best design for a cover for the Museum "Bulletin."

Awarded to Mabel R. Stauffer
Honorable mention to Ernst Detterer
" " " Sarah King

$10.00 for consistent decorative quality of illustrative work.

Awarded to Catharine Hawley

Herbert D. Allman Prize: $10.00. Offered by Mr. H. D. Allman of the Advisory Committee for the Surface Design showing best effect of contrasted color harmony.

Awarded to James Percy Weir
Honorable mention to Annabell Lee Thoma
" " " William Alexander Bond

Herbert D. Allman Prize: $10.00. Offered by Mr. H. D. Allman of the Advisory Committee, for Wall-Paper Design.

Awarded to Jean Craig Robinson
Honorable mention to Jane P. Baker

Mrs. Arthur H. Lea Special Prize: $10.00. For Commemorative Tablet—Colonial Dames.

Awarded to William Heyl Thompson

Charles J. Cohen Prize: $10.00. Offered by Mr. Charles J. Cohen for design for a fountain.

Awarded to Lillian May Daiss
Honorable mention to John Ray Sinnock

Mrs. Thomas S. Harrison Prize: $15.00. For Wrought Iron.

Awarded to Franklin Comer Malick

Mrs. C. Shillard-Smith, First Prize: $15.00. For Illustration.

Awarded to Robert McCaig

Mrs. J. L. Ketterlinus, Second Prize: $5.00. For Illustration.

Awarded to Henrietta Collins
Honorable mention to Charles R. Chickering

Mrs. J. L. Ketterlinus, Special Prize: $5.00. For Water Color.

Awarded to Charles R. Chickering

Colonial Dames Prize: $10.00. Offered by the Pennsylvania Society Colonial Dames of America, for a design for a tablet suitable for marking historic spots.

Awarded to Alice Scott Raymond

Mary Lucretia Ramborger Prize: $5.00. Offered by the Alumni Association for the best set of sketches made in the Costume Class.

Awarded to John Ray Sinnock

Prize Scholarships, for School Year 1912-1913.

Awarded to Katharine Henrietta Anderson (Normal)
" " Frederick Charles Clayter (Design)
" " Grace Garfield Kelley (Illustration)
" " Victoria H. Richards (Interior Decoration)
" " Franklin Gomer Malick (Modeling)

Charles Godfrey Leland Scholarship, for School Year 1912-1913.

Awarded to Ruth MacCollin

M. Theresa Keehmle Scholarship, for School Year 1912-1913.

Awarded to Josephine Helen Stubbs

Aspasia Eckert Ramborger Scholarship, for School Year 1912-1913.

Awarded to Harriet Blackburn

Edward Tonkin Dobbins Scholarships, for School Year 1912-1913.

Awarded to Helen Marie Brown
" " John Ray Sinnock
" " Marion Coyle Plack

The National Association of Cotton Manufacturers Medal. For general excellence, Regular Course. 3d year.

Awarded to Hibbert H. Dancy

The Henry Friedberger Memorial Prize: $10.00. To student ranking second in general excellence, Regular Course. 3d year.

Awarded to Carl T. Tourtellot
Honorable mention to Henry Anner, Jr.

The "Textile World-Record" Gold Medal: For Thesis and highest rating, Chemistry, Dyeing and Printing Course. 3d year.

Awarded to Arnott R. Broom

Thomas Skelton Harrison Prize: $15.00. For the best thesis in Chemistry, Dyeing and Printing Course. 2d year.

Awarded to Morris M. Rivelis

The Associate Committee of Women's Prize: $10.00. For best Jacquard Design with executed fabric. Regular Course. 3d year.

Awarded to Frank L. Giese
Honorable mention to Carl Nagel

The Miss Clyde Prize: $10.00. For best Jacquard Design with executed fabric. Regular Course. 2d year.

Awarded to Frank A. Roth
Honorable mention to Hugh D. Heidgerd
" " " William R. Frick

The John G. Carruth Prize: $10.00. For highest rating in the Wool Course. 2d year.

Awarded to Allen H. Thuerer
Honorable mention to Felix A. Kuenzel

The Krout & Fite Mfg. Co. Prize: $10.00. For highest rating in Cotton Course. 2d year.

Awarded to Thomas F. Dooley
Honorable mention to Robert B. Dempster

The Mrs. Joseph F. Sinnott Prize: $10.00. For highest rating in the Chemistry, Dyeing and Printing Course. 1st year.

Awarded to Edwin S. Duhring
Honorable mention to Vincent P. Clasgens

The Delta Phi Psi Fraternity Prize: $10.00. For general excellence in Weave Formation and Fabric Analysis. First year classes.

Awarded to Lewis M. Stewart
Honorable mention to Frank W. Jeffers

The Delta Kappa Phi Fraternity Prize: $10.00. For best executed work on the Hand Harness Loom. First year classes.

Awarded to Irving Levy
Honorable mention to Frederick Blackburn
" " " John A. Hansen

The Phi Psi Fraternity Prize: $10.00. For best executed work in Color Harmony and Design. First year classes.

Awarded to John A. Hansen
Honorable mention to Benson C. Goodman
" " " John C. Eames, Jr.
" " " Frank W. Jeffers

The Elizabeth C. Roberts Prize: $10.00. To student producing the best specially designed and woven Jacquard fabric.

Awarded to Frank R. Wiener
Honorable mention to Warren F. Cooper

Prize Scholarships, for the School Year 1912-1913:

Awarded to Benson C. Goodman (First Year Regular Course)
" " Hugo D. Heidgerd (Second Year Regular Course)
" " Morris M. Rivelis (Second Year Chemistry and Dyeing Course)
" " Joseph F. Mooney (Second Year Evening Class)

CERTIFICATES

SCHOOL OF APPLIED ART

Industrial Drawing (Certificate A)

Lee Rogers Allen
James Ashbrook
Elizabeth Pearl Ashenfelter
Helen Ayers
Frederick William Banse
Adrian Bauer
Frances Helen Beister
Florence Benny
Harry Born
Katharine Oves Bowers
Loretta Burns
George Westcott Campbell
Sallie Carter
Wilson Vaughan Chambers
Earley Rovel Clark
Frederick Charles Clayter
Joseph Massey Clement
Louis G. Cohen
Louise Drew Cook
Marie Elizabeth Cole
Mary Ione Copeland
Leon William Corson
William Blacknell Crossland
Dorothea Sturgis Dallett
Helena Day
Conrad Dickel
Thomas Earley
Parke Emerson Edwards
Howard Zook Fisher
Joseph Freidman
Catherine Florence Garrett
Irene Allen Garrison
Clifford Glascoe Gaul
George Good
Rene Daniel Grove
Isabella Pennock Haines
Harriet Lockerman Heberton
Lena William Hoagland
Isabel Huston
Ethel Jamison
Ada Jones
Helen Boyd Kester
Edward A. Kibler
Marguerite Irene Kinney
Hazel Lavinia Lamborn
Priscilla Magoun
Harriet Marcy
Louise Margolf
Anna Miles
Frank Henry Mills
Walter Neisley
Lelia Emlie Phillips
Clemens Julius Poiesz
Herbert Louis Renner
M. Elizabeth Ritchie
Miriam E. C. Roeder
Gertrude Elizabeth Royal
Elizabeth Kathleen Scruggs
Henry Stapf
William Gordon Thayer
Annabell Lee Thoma
Margaret Thompson

Surface Design and Color (Certificate B)

Jane Pontius Baker
Florence Brindle
Lillian May Daiss
Jacob Rifit Fox
Margaret Sharp Greenewalt
Mary Wilber Gregory
Charlotte Eleanor Hart
Bessie May Hopkins
Louise Ashhurst Pharo
Jean Craig Robinson
Anna Beatrice Twaddell

Surface Design and Color (Special)

Helen Louise Haskell
Florence Barrick Locke
Agnes St. John

Surface Design and Color (Normal)

Katharine Henrietta Anderson
Katharine Oves Bowers
Miriam Amelia Boyer
Albert Michael Canter
Edith Mary Clement
Cora Almeda Clever
Jane Blachly Driver
Hanna Irene Emery
Clara Louise Ernst
Catherine Florence Garrett
Lillian Elizabeth Hess
Franklin Gomer Malick
Edith May Meyers
Effie Elizabeth Miller
Helen Benson Murphy
Edith Mae Murray
Clemens Julius Poiesz
Edith Mosley Power
Flora Stauffer Sherrick
Nanna Worrall Stewart
Gladys Lillian Sweeney

Constructive Design and Modeling (Certificate C)

Priscilla Magoun
Harriet Marcy

Constructive Design and Modeling (Normal)

Susan Wollaston Atkinson
Harret I. Blackburn
Margaret Bostock
Edith Mary Clement
Walter Jonas Cole
Howard Caldwell Gregson
Jean Catherine Landregan
Ruth MacCollin
Charles Barton McCann
Ruth Mitchell
Edna Viola Pennington
Marion Coyle Plack
Alice Scott Raymond
Harry Christopher Renn
Carine Watson Scott
John Ray Sinnock
Edith Harper Smith
Henry Stapf
Nanna Worrall Stewart
Vera Loretta Gregory Stevens
Helen Stubbs

Interior Decoration

Elmer Simon Brown Arthur Raymond Hollis

Architectural Drawing

Frank Rossmond Fish Gabriel B. Rothkugel
Frank Christopher Stockholm, Jr.

Illustration

Florence Agusta Conlin

TEXTILE SCHOOL
FULL COURSE CERTIFICATES

Day Classes

Cotton Course—Two Years

Robert Bruce Dempster Thomas Floyd Dooley
Edward Ballou Tenney

Silk Course—Two Years

Warren Freeman Cooper Frank Reginald Wiener

Wool Course—Two Years

George Hyslop Bathgate Laurence Francis Prendergast
Felix Adam Kuenzel Allen Henry Thuerer
Linden Morgan Valentine

PARTIAL COURSE CERTIFICATES

Day Classes

Two Years of the Regular Course

Morris William Bartelt
Charles Carroll Baxter
James Joseph Boyle
Frederick Emil Eick, Jr.
Willard Charles French
William Reinhart Frick
Hugo Diedrich Heidgerd
George Russell Krout
Robert Buckman Lehman, Jr.
Enrique Pablo Mejia
Harry Leslie Paul
Frank Alwin Roth
Herbert Hannan Anthony Schell
Jeremiah Cleveland Sims
George Aiman Slifer
Arthur Kallman Strauss
Carl Hans Tiedemann
Robert Lang Todd

Two Years of Chemistry, Dyeing and Printing Course

Ernest Frederick Apeldorn, Jr.
Morris Marcus Rivelis

FULL COURSE CERTIFICATES

Evening Classes

Regular Textile Course—Three Years

Arthur C. Broughton
John H. Prifold
James Purdy
Robert F. Smith
George Stoner

Chemistry and Dyeing Course—Three Years

J. W. Firefile
Harry Gallagher
Charles Knowles
John R. Moore

PARTIAL COURSE CERTIFICATES

Evening Classes

Weave Formation—Three Years

John Moffatt
Charles Schilling

Fabric Analysis and Calculations—Three Years

John Moffat
John Porter
Charles Schilling

Silk Fabric Analysis and Calculations—Two Years

Harry Little

Woolen Yarn Manufacture—Two Years

A. Wallace Schofield
William S. Schofield

Worsted Yarn Manufacture—One Year

Vernon Bailey
Ernest Baxter
Henry C. Legge
Earl Rommel
Harry Scott
A. Wallace Schofield
William S. Schofield

Cotton Yarn Manufacture—One Year

B. Kendall Archer
Benjamin Stanley

Textile Chemistry—One Year

Charles Miller

The following students of the Textile School have satisfactorily completed the work of the year in classes for which no certificates are awarded:

Day Classes—First Year

Frederick Blackburn
Harold C. Bell
Henry H. Benedict
William P. Brown
Vincent P. Clasgens
Edward H. Davis
Edward W. Dewey
James S. Diment
Percy Doblin
Edwin S. Duhring
John C. Eames, Jr.
William R. Ford
James W. Gillespie
Benson C. Goodman
J. Elmer Hahn
Frank W. Hancock, Jr.
John A. Hansen
Benjamin Jamison
Frank W. Jeffers
Albert C. Kluge
Hugo J. Knoernschild
John Laurie
Irving Levy
Marion J. Marks
William J. Nelligan
Justus K. Orlemann
Charles N. Robertson, Jr.
Warren R. Scatchard
Joseph H. Schmitt
George Steiner
Lewis M. Stewart
Charles Wolff
Chester C. Wood
Robert W. A. Wood

Pennsylvania Museum and School of Industrial Art

Location of Exhibits in the Annual Exhibition of Students' Work at the School Building, Broad and Pine Streets

ART SCHOOL

ENTRANCE LOBBY—*Architectural Drawing and Design.*

AUDITORIUM—*Life Class. Antique Classes. Costume Class. Illustration Class.*

MAIN EXHIBITION ROOM (North Wing)—*Work of Classes in Design. Plant Analysis. Ornament Study from Casts and Historic Examples. Bookbinding. Stencils. Metal Work and Jewelry. Designs for Wall Paper, Printed Silks, Oil Cloth, Rugs, Carpets, Lace, etc. Work of the Industrial Drawing and Normal Classes.*

INTERIOR DECORATION ROOMS—*Designs for Interior Decoration. Water-color Studies.*

ORNAMENT CLASS-ROOMS—*Historic Ornament, Furniture, Wrought Iron.*

MODELING ROOMS (Fifteenth Street End of Building)—*Pottery, Cement, Terra-Cotta. Models for Metal Work, Fountains, Carving, Medals, and Decorative Panels.*

TEXTILE SCHOOL

COMMITTEE ROOMS—*Fabrics for Decorative Interiors from Historic Motives. Fancy Silks, Brocades, Sydneys, Tapestries, etc. Heavy Draperies. Draperies with Motives and Colorings from Antique Examples. Steamer Robes and Rugs.*

MAIN EXHIBITION ROOM (South Wing)—*Fancy Ginghams, Fine Grade Mantel Cloths. Medium Grade Plaids. Woolen Suitings. Men's Wear. Shirtings and Shirt Waistings. Sample Ranges, including upwards of 3,000 patterns. Illustrations of Courses in Cloth Analysis, Fabric Structure, Color Harmony, Carding and Spinning, and Chemistry and Dyeing, including such Novelties as Use of Formaldehyde in Dyeing, Application of Titanous Salts as a Bleaching Agent, Preparation of Fast Shades on Cotton with Sulphur Dyes, Studies in Chlorinated Wool in Dyeing and Rendering Fabrics Unshrinkable, Tests of Methods and Efficiency of New Inventions in Dyeing, Shades on Union Goods and Leather.*